

p155

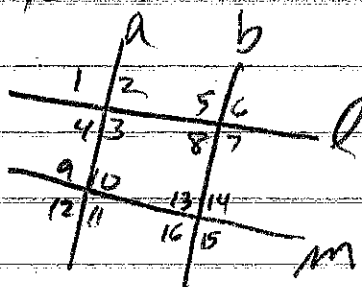
13-20, 26-31, 34

13. $\angle 2 \cong \angle 8$ $a \parallel b$ If alt int \cong , then \parallel

14. $\angle 9 \cong \angle 16$ none

15. $\angle 2 \cong \angle 10$ $\ell \parallel m$ If corr $\angle s \cong$, then \parallel

16. $\angle 6 \cong \angle 15$ none

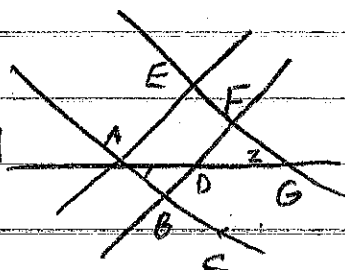


17. $\angle AEF \cong \angle BFG$ $\overleftrightarrow{AE} \parallel \overleftrightarrow{BF}$ If corr $\angle s \cong$, then \parallel

18. $\angle EAB \cong \angle DBC$ $\overleftrightarrow{AE} \parallel \overleftrightarrow{BF}$ same

19. $\angle EFB \cong \angle CBF$ $\overleftrightarrow{AC} \parallel \overleftrightarrow{EG}$ If alt int $\angle s \cong$, then \parallel

20. $m\angle GFD + m\angle CBD = 180$ $\overleftrightarrow{AC} \parallel \overleftrightarrow{EG}$ If ssid int suppl, then \parallel



21. $\angle 1 \cong \angle 2$

22. $\angle 3 \cong \angle 4$

23. $\angle 5 \cong \angle 6$

24. $\angle 7 \cong \angle 8$

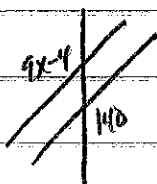
25. $\angle 9 \cong \angle 10$

26.

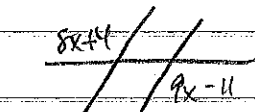
$$9x - 4 = 140$$

$$9x = 144$$

$$x = 16$$



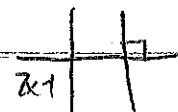
27.



$$8x + 4 = 9x - 11$$

$$15 = x$$

28.

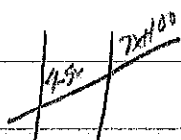


$$7x - 1 = 90$$

$$7x = 91$$

$$x = 13$$

29.

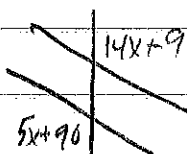


$$4 - 5x = 7x + 100$$

$$-96 = 12x$$

$$-8 = x$$

30.

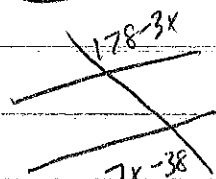


$$5x + 90 = 14x + 9$$

$$81 = 9x$$

$$9 = x$$

31.

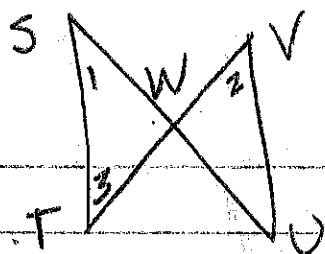


$$7x - 38 = 178 - 3x$$

$$10x = 216$$

$$x = 21.6$$

34



G: $\angle 2 \cong \angle 1$

$\angle 1 \cong \angle 3$

P: $\overline{ST} \parallel \overline{UV}$

① $\angle 2 \cong \angle 1$ $\angle 1 \cong \angle 3$

② $\angle 2 \cong \angle 3$

③ $\overline{ST} \parallel \overline{UV}$

① Given

② Transitive

③ If alt int \angle s \cong , then \parallel